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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/085,920	-	02/28/2002	Ronald P. Cocchi	PD-200337 1161	
20991	7590	12/13/2005	EXAMINER		INER
THE DIRE		OUP INC	ZIA, SYED		
POBOX 95			ART UNIT	PAPER NUMBER	
EL SEGUNDO, CA 90245-0956				2131	

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/085,920	COCCHI ET AL.
Of	fice Action Summary	Examiner	Art Unit
		Syed Zia	2131
The I	MAILING DATE of this communication  y	appears on the cover sheet with the c	orrespondence address
WHICHEVE - Extensions of the after SIX (6) M - If NO period for Failure to reply Any reply rece	NED STATUTORY PERIOD FOR RE R IS LONGER, FROM THE MAILING time may be available under the provisions of 37 CFI ONTHS from the mailing date of this communication or reply is specified above, the maximum statutory per within the set or extended period for reply will, by stived by the Office later than three months after the materm adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNICATION R 1.136(a). In no event, however, may a reply be tin riod will apply and will expire SIX (6) MONTHS from atute, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a) ☐ This a 3) ☐ Since	nsive to communication(s) filed on 2 ction is <b>FINAL</b> . 2b)⊠ 1 this application is in condition for allo I in accordance with the practice und	This action is non-final.  wance except for formal matters, pro	
Disposition of (	Claims		
4a) Of 5) ☐ Claim( 6) ☑ Claim( 7) ☐ Claim(	(s) 1-28 is/are pending in the applicate the above claim(s) is/are with (s) is/are with (s) is/are allowed.  (s) 1-28 is/are rejected.  (s) is/are objected to.  (s) are subject to restriction and opers	drawn from consideration.	
10) The dra Applica Replac	ecification is objected to by the Examawing(s) filed on is/are: a) and a sint may not request that any objection to ement drawing sheet(s) including the corth or declaration is objected to by the	accepted or b) objected to by the the the drawing(s) be held in abeyance. See rection is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 3	5 U.S.C. § 119		
a)	viedgment is made of a claim for fore b) Some * c) None of:  Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the papplication from the International Burattached detailed Office action for a	ents have been received. ents have been received in Application or in the priority documents have been received and (PCT Rule 17.2(a)).	on No ed in this National Stage
2)  Notice of Draf 3)  Information Di	erences Cited (PTO-892) tsperson's Patent Drawing Review (PTO-948) sclosure Statement(s) (PTO-1449 or PTO/SB/		(PTO-413) Ite atent Application (PTO-152)

#### **DETAILED ACTION**

This office action is in response to application filed on February 28, 2002. Original application contained Claims 1-28. Therefore, Claims 1-28 are pending for further consideration.

### Specification

2. The disclosure is objected to because of the following informalities:

The attempt to incorporate subject matter into this application by reference to application(s) is ineffective because "reference" number have been omitted, See 37 CFR 1.57(b)(1); the reference document is not clearly identified as required by 37 CFR 1.57(b)(2)).

# Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claims 2, 9, 16, and 23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Although the

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specification suggests the use of external means with protected memory and algorithm, but nowhere this is described how external means are actually used or configured.

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 9, 16, and 23 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: It is not clear how the external means encompasses in relation to remainder of the invention.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 8-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Kocher (U.S. Patent 6,289,455).

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- 1. Regarding Claim 8 Kocher teaches a method for limiting unauthorized access to digital services comprising:
- (a) configuring a protected nonvolatile memory component (col.21 line 13 to line 15), wherein: (i) the protected nonvolatile memory component is used to contain state information to provide desired functionality and enforce one or more security policies (i.e. regulating access) for accessing the digital services (col.10 line 5 to line 47, and col.5 line 55 to col.6line 3); and (ii) the protected nonvolatile memory component and a microprocessor's nonvolatile memory component share a programming charge pump and programming control; and (b) controlling access to the nonvolatile memory component through a fixed state custom logic block (col. 21 line 2 to col. 22 line 25).
- 2. Regarding Claim 15 Kocher teaches a conditional access module (CAM), (Fig. 2 Item 225) comprising:
- (a) a protected nonvolatile memory component (col.21 line 13 to line 15), wherein: (i) the protected nonvolatile memory component is used to contain state information to provide desired functionality and enforce one or more security policies (i.e. regulating access) for accessing digital services (col.10 line 5 to line 47, and col.5 line 55 to col.6line 3); and (ii) the protected nonvolatile memory component and a microprocessor's nonvolatile memory component share a programming charge pump and programming control; and (b) a fixed state custom logic block configured to control access to the nonvolatile memory component (col. 21 line 2 to col. 22 line 25).

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3. Regarding Claim 22 Kocher teaches a. An article of manufacture for preventing unauthorized access to digital services comprising:

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- (a) means for configuring a protected nonvolatile memory component (col.21 line 13 to line 15), wherein: (i) the protected nonvolatile memory component is used to contain state information to provide desired functionality and enforce one or more security policies (i.e. regulating access) for accessing the digital services (col.10 line 5 to line 47, and col.5 line 55 to col.6line 3); and (ii) the protected nonvolatile memory component and a microprocessor's nonvolatile memory component share a programming charge pump and programming control; and (b) means for controlling access to the nonvolatile memory component through fixed state custom logic block (col. 21 line 2 to col. 22 line 25).
- 4. Claims 9-14, 16-21, and 23-28 are rejected applied as above rejecting Claim 8, 15, and 22. Furthermore, Kocher teach and describe a system and method for controlling access to digital services, wherein:

As per Claim 9, the custom logic block has a fixed algorithm that cannot be altered by external means (Kocher: col.23 line 36 to line 48).

As per Claim 10, access to a block of the protected nonvolatile memory component is limited to one or more functions defined in the custom logic block (Kocher: col.24 line 10 to line 30).

As per Claim 11, the custom logic block is implemented in solid state hardware that implements a simple and well defined state machine (Kocher: col.4 line 1 to line 13).

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As per Claim 12, the protected nonvolatile memory component is not accessible through a system input/output module, system bus, microprocessor, or external environment (Kocher: col. 21 line 2 to line 64).

As per Claim 13, the nonvolatile memory component is exclusively controlled through the custom logic block and does not require the use of a system bus or microprocessor (Kocher: col.21 line 13 to line 21).

As per Claim 14, a microprocessor's nonvolatile memory component and the protected nonvolatile memory component use the same physical and logical address ranges (Kocher: col.27 line 25 to line 39).

As per Claim 16, the custom logic block has a fixed algorithm that cannot be altered by external means. (Kocher: col.23 line 36 to line 48).

As per Claim 17, access to a block of the protected nonvolatile memory component is limited to one or more functions defined in the custom logic block Kocher: col.24 line 10 to line 30).

As per Claim 18, the custom logic block is implemented in solid state hardware that implements a simple and well defined state machine (Kocher: col.4 line 1 to line 13).

As per Claim 19, the protected nonvolatile memory component is not accessible through a system input/output module, system bus, microprocessor, or external environment (Kocher: col. 21 line 2 to line 64).

As per Claim 20, the nonvolatile memory component is exclusively controlled through the custom logic block and does not require the use of a system bus or microprocessor (Kocher: col.21 line 13 to line 21).

As per Claim 21, a microprocessor's nonvolatile memory component and the protected nonvolatile memory component use the same physical and logical address ranges (Kocher: col.27 line 25 to line 39).

As per Claim 23, the custom logic block has a fixed algorithm that cannot be altered by exGemal means (Kocher: col.23 line 36 to line 48).

As per Claim 24, access to a block of the protected nonvolatile memory component is limited to one or more functions defined in the custom logic block Kocher: col.24 line 10 to line 30).

As per Claim 25, the custom logic block is implemented in solid state hardware that implements a simple and well defined state machine (Kocher: col.4 line 1 to line 13).

As per Claim 26, the protected nonvolatile memory component is not accessible through a system input/output module, system bus, microprocessor, or external environment (Kocher: col. 21 line 2 to line 64).

As per Claim 27, the nonvolatile memory component is exclusively controlled through the custom logic block and does not require the use of a system bus or microprocessor (Kocher: col.21 line 13 to line 21).

As per Claim 28, a microprocessor's nonvolatile memory component and the protected nonvolatile memory component use the same physical and logical address ranges (Kocher: col.27 line 25 to line 39).

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## Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen et al. (U. S. Patent 5,282,249), and further in view of Kocher (U.S. Patent 6,289,455).
- 6. Regarding Claim 1, Cohen teach and describe a system for controlling access to digital services comprising: (a) a control center configured to coordinate and provide digital services; (b) an uplink center configured to receive the digital services from the control center and transmit the digital services to a satellite (Fig. 1/1 Item 20); (c) the satellite configured to: (i)

receive the digital services from the uplink center (Fig. 1/2 Item 22); (ii) process the digital services (Fig. 1/2 Item 22), and (iii) transmit the digital services to a subscriber receiver station (Fig. 1/2 Item 24); (d) the subscriber receiver station configured to: (i) receive the digital services from the satellite (Fig. 1/2 Item 26); (a) control access to the digital services through an integrated receiver/decoder IRD) (Fig. 1/2 Item 30); and (e)a conditional access module (CAM) communicatively coupled to the IRD (Fig. 1/2 Item 32), [col.4 line 12 to line 66],

Cohen do not disclose the CAM comprising nonvolatile protected memory component having state information to enforce desired functionality.

However, Kocher disclose the CAM (Fig.2 Item 225) comprising:

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(i) a protected nonvolatile memory component, wherein: (1)the protected nonvolatile memory component (col.21 line 13 to line 15) is used to contain state information to provide desired functionality and enforce one or more security policies (i.e. regulating access) for accessing the digital services (col.10 line 5 to line 47,and col.5 line 55 to col.6line 3); and (2) the protected nonvolatile memory component and a microprocessor's nonvolatile memory component share a programming charge pump and programming control; and (ii) a fixed state custom logic block configured to control access to the nonvolatile memory component (col. 21 line 2 to col. 22 line 25).

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Kocher is analogous art because it discusses a method and apparatus for preventing piracy of digital content including the use of a smart card.

Therefore, It would have been obvious to one ordinary skilled in the art at the time of invention to include the teachings and features of CAM found in Kocher in the smart card used by Cohen, to control access to the broadcast data, because Kocher's method of protected memory of monitored data by using state information would not only promote security structure in the system of Cohen during receiving and distributing digital content (Kocher: col.5 line 55 to line 56) but will also provide safeguards against attempt by unauthorized person to breach security of system.

7. Claims 2-7 are rejected applied as above rejecting Claim 1. Furthermore, system of Cohen and Kocher teaches and describes a system and method for controlling access to digital services, wherein:

As per Claim 2, the custom logic block has a fixed algorithm that cannot be altered by external means (Kocher: col.23 line 36 to line 48).

As per Claim 3, access to a block of the protected nonvolatile memory component is limited to one or more functions defined in the custom logic block (Kocher: col.24 line 10 to line 30).

As per Claim 4, the custom logic block is implemented in solid state hardware that implements a simple and well defined state machine (Kocher: col.4 line 1 to line 13).

As per Claim 5, the protected nonvolatile memory component is not accessible through a system input/output module, system bus, microprocessor, or external environment (Kocher: col. 21 line 2 to line 64).

As per Claim 6, the nonvolatile memory component is exclusively controlled through the custom logic block and does not require the use of a system bus or microprocessor (Kocher: col.21 line 13 to line 21).

As per Claim 7, a microprocessor's nonvolatile memory component and the protected nonvolatile memory component use the same physical and logical address ranges (Kocher: col.27 line 25 to line 39).

### Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claim 1, 8, 15, and 22 of instant application 10085920 (hereafter '920) are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 10, 19, and 28 of copending Application No. 10085346 (hereafter '346). Although the conflicting claims are not identical, they are not patentably distinct from each other because in view of the obviousness type double patenting rationale enunciated in Georgia-Pacific Corp. v. United States Gypsum Co., 195 F.3d 1322, 1326, 52 USPQ2d 1590, 1593 (Fed. Cir. 1999, the instant application's above mentioned claims merely define a system for controlling access to digital services where device (protected memory and microprocessor) share charge pump and programming control for access right management which is a obvious variation of access rights to digital services based on hidden non-modifiable identification number of the invention as claimed in copending application '346.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Zia whose telephone number is 571-272-3798. The

examiner can normally be reached on 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 28, 2005